

Remediation – Simplifying Fractions

After you have watched the video from the wiki, you should try the following problems and then use the key to check your work. If you are successful on this worksheet, take the re-evaluation quiz. Be sure to follow the directions there.

Directions: Please simplify the following without a calculator. Show your work when necessary.

1. $\frac{21}{14} = \frac{3}{2}$

2. $\frac{48}{36} = \frac{4}{3}$

3. $-\frac{54}{45} = -\frac{6}{5}$

4. $\frac{72}{64} = \frac{9}{8}$

5. $-\frac{420}{1155} = -\frac{4}{11}$

6. $\frac{544}{480} = \frac{136}{120} = \frac{34}{30}$

7. $-\frac{630}{2310} = -\frac{63}{231} = -\frac{3}{11}$

8. $\frac{480}{408} = \frac{120}{102} = \frac{20}{17}$

Directions: Please multiply as indicated. Show your work.

9. $\frac{8}{15} \cdot \frac{25}{12} \cdot \frac{7}{5} = \frac{14}{9}$

10. $1\frac{15}{33} \cdot 6\frac{2}{7} \cdot \frac{7}{24} = \frac{8}{3}$

11. $21\frac{3}{5} \cdot \left(\frac{15}{36}\right) \cdot \left(\frac{9}{25}\right) = \frac{81}{25}$

12. $1\frac{21}{33} \cdot \left(-\frac{39}{50}\right) \cdot \frac{11}{13} = -\frac{27}{25}$

13. $\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{8}$

14. $\frac{7}{1} \cdot \frac{2}{21} \cdot \frac{33}{2} = 11$

Directions: Please divide as indicated. Show your work

15. $\frac{8}{15} \div \frac{12}{55} = \frac{22}{9}$

16. $4\frac{1}{3} \div \frac{39}{7} = \frac{7}{9}$

17. $-\frac{11}{5} \div 1\frac{7}{15} = -\frac{3}{2}$

Directions: Please simplify the following. Show your work.

18. $\frac{2}{7} \div \frac{4}{21} \div \left(-\frac{6}{5}\right) = -\frac{5}{4}$

19. $4\frac{2}{7} \cdot \left(\frac{7}{25} \div \frac{1}{7}\right) = \frac{42}{5}$

20. $1\frac{3}{5} \cdot \frac{55}{16} \div 1\frac{1}{2} = \frac{11}{3}$

21. $1\frac{2}{11} \cdot \left(-\frac{39}{26}\right) \cdot \frac{11}{2} = -\frac{39}{4}$

22. $\frac{1}{2} \div \frac{1}{2} \div \left(\frac{1}{2}\right)^2 = 4$

23. $9 \div \frac{15}{7} \cdot \frac{5}{77} = \frac{3}{11}$